ZX-Appeal

vancouver sinclair users group

next meeting:

KILLARNY COMMUNITY CENTRE
6260 KILLARNY STREET
VANCOUVER
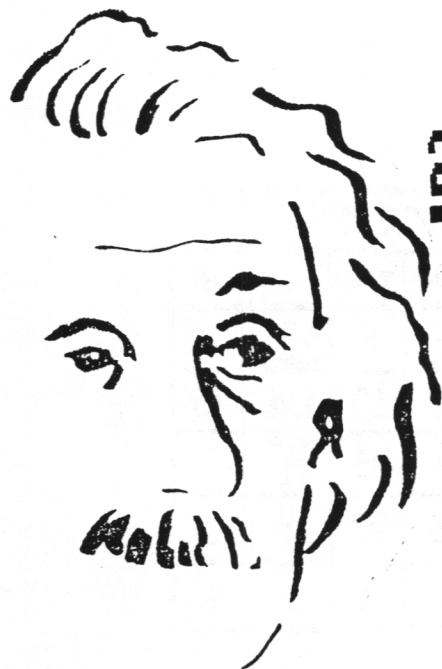
FRIDAY; 7:00PM

OCT 14/88

ZXAppeal is a monthly
newsletter put out by the
Vancouver Sinclair Users Group.
For more information on the
group and ZXAppeal see the backcover.

inside

$$\frac{2^2(zx)}{4}+9^2 \quad = \quad \frac{2^2(ts)}{4}+10^3$$

THIS ISSUE...

Not much in the way of submissions this month so we'll just have a "skinny" issue. We do have a few things for you: ever reliable, for the moment, Harvey is back with thoughts on some of his recent readings as well as a note to all concerning Meta Media QL wares; Gerd dropped off a couple of things for this issue, and Marcio handed in a little item of interest. I also have a couple of other items you might find interesting as well as a program listing for the 2068 that will be of great help if you're not sure weather to take your umbrella with you.

If you guys want and expect to receive an interesting and enjoyable newsletter then you'll just have to start doing a little more to support it. Quite a few members have contributed items but many of you have done nothing to support the N/L nor the group other than pay your dues. Sorry chaps, a little more is expected if the group is to keep on keeping on. You out-of-towners can certainly contribute as well.

****

...next meeting

OCT/88						
SUN	MON	TUE	WED	THU	FRI	SAT
2	3	4	5	6	7	1/8
9	10	11	12	13	**14**	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	‡	‡	‡	‡	‡

With prompting Gerd asked for order at 19:25. There were 17 intrepid souls present; a couple more straggled in later.

Gerd started off by talking about the considerable amount of work which goes into producing a newsletter. Kudos were handed out to Rod with general applause.

Glenn Read was not aound to do a VP report, so Rod jumped in with his treasurer's report. We now have CAN$ 942.93 in ye olde credit union with credits during the meeting of approx. $75.00 bringing the total over 1K. Rod also mentioned he is going 'down under' next month & it will be up to somebody else to do the newsletter that month. Volunteers?

Rod mentioned modestly that ZXAPPEAL had tied for second in the TDM contest. More kudos!

There was a question from the floor about whether or not we are exchanging newsletters with any Mexican user groups? It seems we did in the past, but a chnage of address card seems to have gone astray. By the way, Rod will now be sending a copy of ZXAPPEAL to Nigel Searle every month. [Perhaps we should send a formal open invitation to Sinclair/Searle & co., if they happen to be in Vancouver the second friday of the month?]

Rod then mentioned that a company in Texas is advertising a Sinclair MSDOS machine. He was so intrigued, he phoned them. It turns out this is an AMSTRAD 512 with classical Sinclair brand logo. Aaarghh! A pox on Alan Sugar & his marketing minions!

Rod then passed the SNUG — SINCLAIR NORTHAMERICAN USER'S GROUP propaganda sheet around. There was some talk of the proposed SNUG-BBS newsletter idea.

Fred Nachbaur has given Jim Horne all of his software library & there is a catalog disk. [The golden goose is gone however!]

Rod then piped up to say that he had received a letter from Walter Komlosy who has offered to collaborate with the hardware group. He has already designed a 360K NVM board. Takers?

Harry Slot stood to say that the hardware group had not been doing much over the summer & would not be active for another month or so because he was ripping his house apart. There were jokes about whether another pipe organ was entering the Slot household. WilfRigter mentioned that he saw cheap 40X8 LCD's at RPE.

Harvey mentioned that he had WD-40'ed his old printer ribbon collection to good effect. Chung Chow mentioned that you have to be careful not to use the silicon based WD-40 produced by Quaker; it gums up the print heads.

Bill Rutter was the only librarian present. He did not have anything to report, but he was worried about some library loans which had been out for too long. Check your goodies folks.

A protracted hardware discussion about boosting the frequency of the ZX81/ZX80 slide into the room, in the depths of which Rod H was found fantasizing about the Z89 which Sinclair ought to produce -- with a 50 MHz 64180!

There was a gentle request from our valiant leader for some demos...please.

Ken Grant regaled us with the further adventures of his 110-220 volt power conversions. He has now got a BC BC Rail transformer to do the trick. Which is nice, except that it weighs 1/2 a ton.

Wilf Rigter mentioned that Ikea has a type of high efficiency fluorescent lamp now. Mario Vereiera is going to xerox the ComputerFacts articles. Mention was made of the upcoming PCCFA swap meet which will be over by the time you read this. ;-)

[The Caribbean band next door got real loud about here.]

It was brought up that Karl Brown was once again giving the Build your Own Robot course at VVI this fall. There was some discussion of various robotics business matters which Bob did not want to be specific about.

There was a query on the floor about the tpes from the Portland Sinclair Fest. Rod H told the story of the microphone on the video camera at the back of the room to general sighs of exasperation.

It seems G.Winterburn is still having difficulty getting the hi-res routines to work with his NVM. There was some on the spot trouble shooting attempted.

The meeting dissolved to general cacophony.

PLAYING WITH ELECTRICITY

-Sept 29/88
-Harvey Taylor

Maybe if I am quick & short about it, I can slip another wee note past Rod this month. He tells me he is going to print the .asm listing from last month, but maybe there will be room for something completely different -- book reviews!

0) FROM ONE TO ZERO by Georges Ifrah
    ISBN 0 14 00.9919 0
1) THE MEDIA LAB by Stewart Brand
    ISBN 0 14 00.9701 5
2) MINDTOOLS by Rudy Rucker
    ISBN 0 395 46810 8
3) WETWARE by Rudy Rucker
    ISBN 0 380 70178 2

FROM ONE TO ZERO by Georges Ifrah

I was in the middle of a protracted discussion about numbers, having started with the Mandelbrot Set and drifted into the history of mathematics - specifically just when and where the concept of ZERO was discovered/invented, when I remembered having noticed this book in the bookstore. A happy chain of coincidence! This book is great.

The subtitle of the book is A UNIVERSAL HISTORY OF NUMBERS and that is accurate. Starting from the earliest methods, finger counting, cuneiform, hieroglyphics this fascinating text leads you through various cultures unravelling the development of mathematical thought & notation around the world. Recommended.

THE MEDIA LAB by Stewart Brand

Imagine Marshall McLuhan for engineers, living under a regime of "demo or die", trying to invent the future media of the world in "the rag and boneshop of the heart" where new technologies overlap.

A Quote: "All communication technologies are suffering a joint metamorphosis, which can only be understood if treated as a single subject, and only advanced properly if treated as a single craft. The way to figure out what needs to be done is through exploring the human sensory and cognitive system and the ways humans most naturally interact."

MINDTOOLS by Rudy Rucker

Rucker makes mathematics fun! This book is a spirited romp through number, space, logic, infinity and information as applied to almost everything. On one level the book is Rucker's attempt to make the reader comfortable with the computer generated paradigm that "everything is information", while on another it is a vehicle to explain oneself as a multi-dimensional fractal.

WETWARE by Rudy Rucker

This is a science fiction book which deserves a special place of honour in the CyberPunk section of your library. It is the near future. On the moon the robots have rebelled. There is an uneasy peace. Now the bops are going to try running human software [WETWARE] on a petaflop - a meatbop. [1 petaflop = 10^{15}.] To do this they need to use the illegal drug merge. It turns you into a puddle of protoplasm for a spell.

The neatest bops look like iridescent capes. Put one on & it taps into your CNS. So does the book.

✳✳✳

META MEDIA GOES SHAREWARE

-Sept 7/88

Recently a couple of things have happened which have made me reconsider how I wish to conduct my business in the Sinclair community. The first of these is learning that my software is being pirated around the United States. Even though it ought not to have been, because I pointedly eschewed the use of any sort of copy protection, this was a bit of a shock to me. It would seem that the only sensible strategy is to use the pirating energy by going shareware.

The second consideration is the fact that I have bought an Amiga 2000. I now have divided loyalties. Those of you who know me are aware that I have always been interested in the wide spectrum of computing -- I have been a member of three different computer clubs for some time now; so this is not that surprising. However it will mean that my time will be further subdivided. Going shareware is one way to reduce the demands on my time.

Consequently, Meta Media Productions is releasing Q_LINK 1.556 as shareware. If you find this software of value, you may register with Meta Media for 1)a copy of the manual, 2)telephone support, 3) news about updates, 4)further support wares, such as Unarc, Uncrunch, Filters etc. as they become available.

What this means is copy to your hearts delight, give a copy to all your friends, spread the wares. If you wish to register, you may send US$15.00 to:

META MEDIA PRODUCTIONS
726 West 17th
Vancouver, BC.
Canada V5Z 1T9

For the interim period, while orders still come in from people expecting to buy Q_LINK, I will treat these as requests to register & return the balance of funds due.

cordially,   Harvey Taylor

MESSAGE FROM YOUR PRESIDENT

Your V.S.U.G. participated in the Pacific Coast Computer Fair and Swap Meet held on October 1,1988 at the McPherson Cenntre in Burnaby. We had a table adjacent to that of the Vancouver Robot Club (started and run by former and present members of V.S.U.G. - Karl Brown is still giving courses on Building Your Own Robot). Harry Slot put up an impressive display of customized TS 1000 hardware: a dedicated word processor complete with full size keyboard, printer and monitor (static) as well as a unitized system with integral 5" monitor (running a 555 timer design). We had several enquiries about our club. One person has a TS 1000 and a 2068 and he is looking forward to attending our next club meeting. Our stack of literature (brought back from the Portland, Oregon Fair by Rod Humphreys) was gone before the show ended. Karl Brown, Ken Abramson, Bob Denison and myself, all V.S.U.G.

members, brought a robot each. Bob patiently tought interested visitors how to program a robot using his full size terminal. Karl programmed his using a Radio Shack lap top and I programmed mine using a ZX 81 with the robot loader program residing in an 8K built-in non-volatile memory and running from a 16K rampack, RS232 board and 5" monitor. We also had quite a few club members drop in helping attend the table and visiting.

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┌─────────────┐
│  S.O.N.  │
└─────────────┘
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Save Our Newsletter-YOU CAN DO IT! We haven't had a Membership Profile for ages and could really do with articles contributed by YOU. Again, this is an excellent platform for all members (including you folks out-of-town) to make YOUR VIEWS known and contribute to YOUR club. Looking very much forward to seeing and/or hearing from you soon.

Gerd Breunung

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ODDS AND ENDS ON TS 1000 ADD-ONS
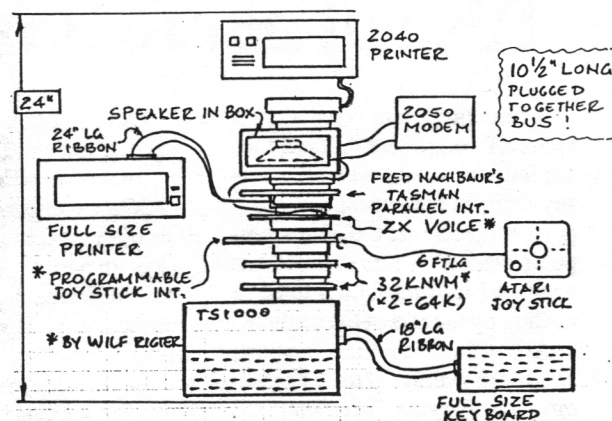### By Gerd Breunung

*RAMDOS DIRECTORY HARD COPY
Do you wish to make a print of your RAMDOS directory? -Here is how you can do it: (presuming you have RAMDOS in a RUN location of 7680, i.e. Hot Key installed) instead of "E" (enter) press "RAND USR 7860"(enter). Your directory will appear with error code 5/0. Switch back to the Sinclair rom and "COPY"(enter) the listing on your 2040 printer. Then press the HOTKEY "E" to use the directory.

MY RAMDOS DIRECTORY

CLRDISK	;B	36	RENUMBR	;B	47
UNMERGE	;B	40	RTPLOAD	;B	35
REMSAVE	;B	84	16KTEST	;B	231
8K TEST	;B	165	STOPPER	;B	455
CHEKSUM	;B	65	FSTLOAD	;B	133
FSTSAVE	;B	177	MTERM/T	;B	3756
Z SPEAK	;B	5021	Z SPEAK	;V	2652
MAZOGS	;B	11921	MAZOGS	;V	174
B.ARROW	;V	381	B.FROGG	;V	381
B.MAZOG	;V	381	JS BOOT	;B	264
B.ZORLA	;V	381			0
	;	0		;	0

*POWER CONSUMPTION
I am presently running the following set up:

For the illustrated set up the current draw with program in RAM is 580 mA and with modem running as well is 600 mA. For a TS 1000 with 16k TS 1016 Rampack the current draw is 600 mA and the power is 6 watts.

LOADED OK ?...

After loading a program, we that still labor with ZX-81 machines and not so reliable tapes always wonder if it loaded OK. You and I know that a program may still run and not have loaded perfectly. Well, my solution is in fact very simple. Just replace the save lines with the following:

```
xxx0   CLS
xxx1   LET Z=PEEK 16425 + 256
       * PEEK 16426 + 5
xxx2   REM 12345678901234567
xxx3   FOR I=1 TO 17
xxx4   INPUT N
xxx5   PRINT N ;" ";
xxx6   POKE Z,N
xxx7   LET Z=Z+1
xxx8   NEXT I
xxx9   STOP
```

Run this program and enter the following data, one by one:

42 20 64 17 125 64 175 71 43 174
79 237 82 200 25 24 247

Now replace lines xxx3 to xxx9:

```
xxx3   POKE 16417, USR Z
xxx4   SAVE "program name"
xxx5   IF USR Z=PEEK 16417 THEN
       GOTO 1
xxx6   PRINT "SORRY, BAD LOAD....
       MARCIO SAYS SO !"
xxx9   STOP
```

Now save the program. Do not modify lines xxx8 to xxx3. Line xxx4 may be changed to agree with your fast loading program. (XXX4 RAND USR *****). Line xxx5 may be changed to read xxx5 IF USR Z=PEEK 16417 THEN RUN, (or GOTO *****). Line xxx6, MUST NOT, I do repeat, MUST NOT be changed or the worst things will happen to your beloved machine, the least being that your ULA will start smoking and be useless forever... and you cannot get those anymore... WHY ?

Marcio Vieira says so

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Rise of neurocomputers predicted

Neurocomputers are a new breed of computers that emulate the human brain, and a New Jersey firm, in a comprehensive report, projects that the neurocomputer market will grow from last year's $7 million (U.S.) to $570 million by the end of the century.

According to the report, *Neurocomputing: The Technology, The Players, The Potential,* from Technical Insights Inc. of Englewood, early markets will be in defence and aerospace, pattern recognition and expert systems.

Later markets will develop in speech recognition, surveillance and machine vision.

Neurocomputing, in its analysis of the machine vision market, says, in part, that General Motors has indicated that the company could use 44,000 robots with vision.

Because machine vision based on conventional, serial computers is expensive and unreliable, few such systems are in use (probably less than 1/10th of one per cent).

The development of the neural machine is still in its early stages, so production units won't be available in the U.S. until the 1990s. The estimated production price is $30,000, which is expected to drop to half that by 1999.

More than 175 research groups involved with neurocomputers are detailed in the 240-page report, plus profiles of eight that are actively selling hardware or software.

```
   1 REM        WEATHER FORCASTER
   2 REM
   3 REM
   4 REM        A program taken from
               the Aug. 1983 issue of
   5 REM        "COMPUTE" magazine
   7 REM
   8 REM        extensively modified
                for the TIMEX 2068
   9 REM
  11 REM            by G.F. Chambers
  12 REM      (George is a member of
               the Toronto T/S Users Group)
  23 REM
  25 REM        Do not use "RUN"
                 -use "GOTO 60"
  26 REM
  27 REM
  30 LET a=0: LET c=a: LET l=a
  35 DIM a$(365,32): DIM b$(1,8)
  40 DIM c$(1,6): DIM d$(1,3): D
IM e$(1,5)
  45 DIM f$(1,1): DIM g$(1,3): D
IM h$(1,3)
  55 DIM i$(1,4): DIM j$(1,31):
DIM k$(1)
  60 GO SUB 2000
  61 CLS
  65 PRINT AT 0,7;"WEATHER ANALY
SIS"
  66 PRINT
  75 PRINT ,,"   Update data ---
----- enter u "
  80 PRINT ,," Forecast from d
ata - enter f "
  85 PRINT ,,"   Display data --
----- enter d "
  90 PRINT ,,"   Display normals
---- enter n "
  92 PRINT ,,"   To terminate --
----- enter t "
  93 PRINT ,,"   Search data ---
----- enter l "
  94 PRINT ,,"   Corrections ---
----- enter c"
  95 PRINT ,,  "   To save prog
ram----- enter s"
  98 FLASH 1: PRINT AT 20,0;"Fun
ction???"
 101 LET y$=INKEY$
 103 IF INKEY$<>"" THEN GO TO 10
3
 104 FLASH 0
 105 IF y$="u" THEN GO TO 135
 110 IF y$="f" THEN GO TO 380
 115 IF y$="d" THEN GO TO 700
 120 IF y$="n" THEN GO TO 900
 122 IF y$="l" THEN GO TO 3000
 123 IF y$="c" THEN GO TO 5000
 124 IF y$="t" THEN GO TO 9999
 125 IF y$="s" THEN GO TO 9998
 130 GO TO 98
 135 CLS
 140 PRINT "          Data Update"
 143 IF l=365 THEN PRINT FLASH 1
;"FILE FULL"
 144 IF l=365 THEN PAUSE 4e4
 145 IF l=365 THEN GO TO 60
 150 PRINT "Enter date (as 31 0
6 83):"
 155 INPUT b$(1,1 TO 8)
 158 LET l=l+1
 160 FOR x=1 TO 365
 165 LET a$(x,1 TO 2)=b$(1,1 TO
2)
 166 LET a$(x,3 TO 4)=b$(1,4 TO
5)
 167 LET a$(x,5 TO 6)=b$(1,7 TO
8)
 175 PRINT "Enter low temperatur
e (celsius)"
 180 INPUT c$(1,1 TO 3)
 184 IF c$(1,1)="-" THEN LET a$(
x,7 TO 9)=c$(1,1 TO 3): GO TO 19
0
 185 LET a$(x,8 TO 9)=c$(1,1 TO
2)
 190 PRINT "Enter high temperatu
re (celsius)"
 195 INPUT d$(1,1 TO 3)
 200 LET a$(x,11 TO 13)=d$(1,1 T
O 3)
 205 PRINT "Enter barometer(in k
ilo-pascals)"
 210 INPUT e$(1,1 TO 5)
 215 LET a$(x,14 TO 18)=e$(1,1 T
O 5)
 220 PRINT "Enter general weathe
r condition",,"1=fair",,"2=cloud
y",,"3=rain"
 223 PRINT ,"4=snow",,"5=thunder
showers","6=snow flurries",,"7=h
eavy rain"
 225 INPUT f$(1,1)
 230 LET a$(x,20)=f$(1,1)
 235 PRINT "Enter precipitation
(in m/metres)"
 245 INPUT g$(1,1 TO 3)
 248 LET a$(x,22 TO 24)=g$(1,1 T
O 3)
 250 PRINT "Snowfall amount(as m
/metres)"
 255 INPUT h$(1,1 TO 3)
 258 LET a$(x,26 TO 28)=h$(1,1 T
O 3)
 260 CLS
 265 PRINT "Enter wind direction
and speed:(as km/hr)"
 270 PRINT "Use this code:",,"1=n
",,"2=ne",,"3=e",,"4=se",,"5=s",
,"6=sw"
 273 PRINT ,"7=w",,"8=nw"
 275 PRINT
 280 PRINT "Enter direction and
speed","as three digit number 31
2"
 285 INPUT i$(1,1 TO 3)
 290 LET a$(x,30 TO 32)=i$(1,1 T
O 3)
 295 CLS
 300 PRINT "Date: ";a$(x,1 TO 2)
;" ";a$(x,3 TO 4);" ";a$(x,5 TO
6)
 305 PRINT "low temp:------ ";a
$(x,7 TO 9)
 310 PRINT "high temp:----- ";a$
(x,11 TO 13)
 315 PRINT "barometer:----- ";a$
(x,14 TO 18)
 320 PRINT "conditions:---- ";a$
(x,20)
 330 PRINT "precipitation:- ";a$
(x,22 TO 24)
```

```
335 PRINT "snowfall:------ ";a$
(x,26 TO 28)
337 PRINT "wind speed----- ";a$
(x,31 TO 32)
340 PRINT "wind direction- ";a$
(x,30)
342 PRINT ,"use this code","1=n
  fair","for wind dir.","2=ne cl
oudy","and conditions:","3=e  ra
in",,"4=se snow",,"5=s   thun/sho
's",,"6=sw snowflurr."
343 PRINT ,"7=w  heavy rain",,"
8=nw"
350 PRINT FLASH 1'"Is this corr
ect?"
355 LET z$=INKEY$
357 FLASH 0
358 IF z$<>"y" AND z$<>"n" THEN
  GO TO 355
359 IF INKEY$<>"" THEN GO TO 35
9
360 IF z$="n" THEN GO TO 135
365 LET l=x
370 IF z$="y" THEN GO TO 61
380 CLS
385 PRINT "        FORECAST"
390 PRINT '"Enter barometric pr
essure:"
395 INPUT a
405 PRINT '"Is barometer: ","1.
steady",,"2. slow rise",,"3. ra
pid rise"
406 PRINT ,"4. slow fall",,"5.
rapid fall"
407 PRINT "rapid change is any
change in","excess of .2 k/pasca
ls per hour."
410 INPUT b
415 PRINT
420 PRINT "Wind from:"
425 PRINT ,"1=n",,"2=ne",,"3=e"
,,"4=se",,"5=s",,"6=sw",,"7=w",,
"8=nw"
430 INPUT c
433 CLS
434 PRINT AT 7,0;
435 IF a>=102.3 AND b=4 AND c>=
5 AND c<=8 THEN GO TO 625
440 IF a>=102.3 AND b=1 AND c>=
5 AND c<=8 THEN GO TO 620
445 IF a>=102.0 AND b=1 AND c>=
6 AND c<=8 THEN GO TO 600
450 IF a>=102.0 AND b=3 AND c>=
6 AND c<=8 THEN GO TO 605
455 IF a>=102.0 AND b=4 AND c>=
5 AND c<=8 THEN GO TO 610
460 IF a>=102.0 AND b=5 AND c>=
6 AND c<=8 THEN GO TO 615
465 IF a>=102.0 AND b=4 AND (c=
4 OR c=5) THEN GO TO 630
470 IF a>=102.0 AND b=5 AND (c=
4 OR c=5) THEN GO TO 635
475 IF a>=102.0 AND b=4 AND c>=
2 AND c<=4 THEN GO TO 640
480 IF a>=102.0 AND b=5 AND c>=
2 AND c<=4 THEN GO TO 645
485 IF a>=102.0 AND b=4 AND (c=
3 OR c=2) THEN GO TO 650
490 IF a>=102.0 AND b=5 AND (c=
3 OR c=2) THEN GO TO 655
492 IF a<=101.0 AND b=5 AND c>=
1 AND c<=3 THEN GO TO 680
493 IF a<=101.0 AND b=5 AND c>=
3 AND c<=5 THEN GO TO 675
494 IF a<=101.0 AND b=3 THEN GO
  TO 685
495 IF a<=102.0 AND b=4 AND c<=
4 AND c>=2 THEN GO TO 660
500 IF a<=102.0 AND b=5 AND c<=
4 AND c>=2 THEN GO TO 665
505 IF a<=102.0 AND b=2 AND (c=
5 OR c=6) THEN GO TO 670
600 PRINT "Fair. Little change
in temp","for the next day or tw
o."
602 GO TO 690
605 PRINT "Fair today, rainy an
d warmer","within 48 hours"
607 GO TO 690
610 PRINT "Warmer, rain within
18 to 24","hours"
617 GO TO 690
620 PRINT "Continued fair with
little","or no change in tempera
ture"
622 GO TO 690
625 PRINT "Fair and warmer for
the next 48 hours"
627 GO TO 690
630 PRINT "Rain within 24 hours
"
632 GO TO 690
635 PRINT "Windy, with rain wit
hin 12","to 24 hours"
637 GO TO 690
640 PRINT "Rain in 12 to 18 hou
rs"
642 GO TO 690
645 PRINT "Windy and rain withi
n 12 hours"
647 GO TO 690
650 PRINT "In summer with light
winds: ","rain may not fall for
several","days"
651 PRINT "In winter: rain with
in 24 hours"
653 GO TO 690
655 PRINT "In summer rain likel
y within","12 TO 24 hours"
656 PRINT "In winter: rain or s
now with increasing winds"
658 GO TO 690
660 PRINT "Rain for next day or
two"
662 GO TO 690
665 PRINT "Rain, with high wind
s followed","within 24 hours by
clearing "
666 PRINT "and turning colder"
668 GO TO 690
670 PRINT "Clearing within a fe
w hours","fair for next several
days"
672 GO TO 690
675 PRINT "Severe storm warning
","windy,with rain or snow immin
ent"
676 PRINT "followed within 24 h
ours by","clearing and colder"
678 GO TO 690
680 PRINT "Severe storm warning
","severe northeast gales"
683 GO TO 690
685 PRINT "Clearing and colder"
690 PRINT AT 21,0;"Press any ke
y to return to menu"
691 PAUSE 4e4
695 GO TO 61
```

```
700 CLS
702 PRINT "              WEATHER DATA
"
703 PRINT " DATE   LO HI  BAR. C
RN  SN  WIN"
704 PRINT "═══════════════════════"
705 FOR t=1 TO 1
710 PRINT a$(t)
730 NEXT t
750 GO TO 690
900 CLS
905 PRINT "              WEATHER NO
RMS"
925 PRINT "═══════════════════════"
930 PRINT "           TEMP      PRE
CIPITATION"
935 PRINT " mean max min mean
max/24h sn"
940 PRINT "J  -3.9  16 -25   67
52.3    348"
945 PRINT "F  -3.8  14 -29   59
42.2    335"
950 PRINT "M   0.2  27 -21   67
42.9    254"
955 PRINT "A   7.0  29 -12   66
46.7    71"
960 PRINT "M  13.2  32 -1    70
51.8    tr."
965 PRINT "J  19.0  35  3    63
63.5    0"
970 PRINT
975 PRINT "J  21.9  41  7    74
65.0    0"
980 PRINT "A  21.0  38  7    61
81.8    0"
985 PRINT "S  16.6  38  1    65
67.6    tr."
990 PRINT "O  10.6  28 -6    60
97.0    3"
995 PRINT "N   4.3  24 -16   63
51.3    124"
1000 PRINT "D  -1.8  15 -30   61
52.1    259"
1010 PRINT "Yr. 8.7  41 -30 776
81.8 1,394"
1015 PRINT
1020 PRINT "Data for Toronto,Ont
."
1025 PRINT "Lat.43.40 n;Long.79.
24 w. El.35m"
1040 GO TO 690
2000 CLS
2005 FLASH 1: PRINT AT 10,7;"WEA
THER ANALYSIS"
2040 PAUSE 200
2050 FLASH 0: CLS : PRINT TAB 8;
"WEATHER ANALYSIS"
2055 PRINT 'This program is des
igned to","store a limited amoun
t of data"
2056 PRINT "in the file portion
of the","program. It is suggeste
d"
2057 PRINT "that for storage of
more than","a year's data, a wea
ther file","be maintained."
2060 PRINT
2065 PRINT "This program will of
fer a","forcast of expected loca
l"
2066 PRINT "weather conditions,u
sing","barometric pressure and w
ind"

2067 PRINT "direction",,,,"You w
ill be surprised at"
2068 PRINT "the accuracy of this
 method,","yet it is based on so
und"
2069 PRINT "scientific principle
s."
2075 FLASH 1: PRINT : PRINT FLAS
H 1;"Press any key to continue"
2080 PAUSE 4e4
2085 FLASH 0: CLS
2090 RETURN
3000 CLS
3010 PRINT "Enter date (as 25 06
 82)"
3015 INPUT b$(1,1 TO 8)
3020 LET c$(1,1 TO 2)=b$(1,1 TO
2)
3025 LET c$(1,3 TO 4)=b$(1,4 TO
5)
3027 LET c$(1,5 TO 6)=b$(1,7 TO
8)
3030 FOR a=1 TO 1
3035 IF c$(1)=a$(a, TO 6) THEN G
O TO 3050
3040 NEXT a
3045 PRINT "Date not found"
3047 GO TO 690
3050 CLS
3067 PRINT "Date: ";a$(a,1 TO 2)
;" ";a$(a,3 TO 4);" ";a$(a,5 TO
6)
3070 PRINT "low temp:------ ";a
$(a,7 TO 9)
3075 PRINT "high temp:------ ";a$
(a,11 TO 13)
3080 PRINT "barometer:----- ";a$
(a,14 TO 18)
3085 PRINT "condition:----- ";a$
(a,20)
3090 PRINT "precipitation:- ";a$
(a,22 TO 24)
3095 PRINT "snowfall:------ ";a$
(a,26 TO 28)
4000 PRINT "winds:--------- ";a$
(a,30 TO 32)
4020 GO TO 690
5000 CLS
5005 PRINT "Enter date (as 25 06
 85)"
5010 INPUT b$(1,1 TO 8)
5011 LET c$(1,1 TO 2)=b$(1,1 TO
2)
5012 LET c$(1,3 TO 4)=b$(1,4 TO
5)
5015 LET c$(1,5 TO 6)=b$(1,7 TO
8)
5020 FOR n=1 TO 1
5025 IF a$(n,1 TO 6)=c$(1,1 TO 6
) THEN GO TO 5100
5030 NEXT n
5040
5050 PRINT "Date not in file"
5060 GO TO 690
5100 CLS
5110 PRINT "Enter: "
5120 PRINT TAB 5;"Date (as 6 dig
its)","        (12/05/85)"
5125 INPUT a$(n,1 TO 8)
5130 PRINT TAB 5;"low temp"
5135 INPUT a$(n,7 TO 9)
5140 PRINT TAB 5;"high temp"
5145 INPUT a$(n,11 TO 13)
5150 PRINT TAB 5;"barometer"
```

-9-

SUPREME COURT RULES STEALING DATA IS NOT THEFT

OTTAWA – After a recent Supreme Court of Canada ruling which decided that taking confidential information is not theft, many companies with computers are worrying about the safety of electronically stored data.

The ruling was handed down in a case in which a Toronto consultant, Wayne John Stewart, offered Jan William Hart, a security guard at the Constellation Hotel in Toronto, money to obtain the names, addresses and phone numbers of its 600 employees in an effort to unionize them.

Hart informed his employer and the police of the bribe and Stewart was charged with counselling to commit theft and fraud. Although first acquitted, Stewart was later convicted by the Ontario Court of Appeal. Supreme Court Justice Antonio Lamer restored the acquittal late last month.

The court ruled that confidential information is not property, and so its unauthorized taking cannot be theft. He explained that property must be capable of being taken or "converted" in a manner that results in the deprivation of the alleged owner of the use or possession of that property.

Furthermore, since confidential information is a "pure intangible" and has no physical existence, said Justice Lamer, it cannot be the subject of a taking. He added that if protection is warranted for such information it should be granted through legislative enactment.

On the charge of fraud, Justice Lamer decided the taking of the information would not have resulted in a risk of economic loss. Since the hotel had no intention of dealing in a commercial way with the confidential information, it would not have been defrauded of money or of any economic advantage.

So if someone were to obtain access to information such as a mailing list, whether electronic or hardcopy, to use it in a way that would not deprive the owner of access or subsequent revenues he cannot be charged with either theft or fraud.

However, under the Copyright Act, compiled information such as a mailing list qualifies as a "literary work" and may therefore be protected. Computer programs, both source and object code, are similarly protected under the act. Any unauthorized reproduction, while not theft or fraud, is regarded as a copyright infringement.

Any unauthorized copy made onto a magnetic storage medium such as a disk or tape, or a duplicate made into computer memory would be regarded as illegal.

If access to a computer were gained by a non-employee using a dumb terminal and modem, where the information was merely displayed and no tangible or fixed medium copy were made, the Copyright Act might not apply. The person might be charged with theft of telecommunications service under the Criminal code, although a decision of the Supreme Court of Canada has made it unlikely a conviction could be obtained in that situation, says Barry Sookman, a lawyer specializing in computer law with Rosenberg Smith Paton Hyman in Toronto.

In the Stewart case, Justice Lamer addressed the concern many companies have regarding the release of corporate secrets by former employees. He explained the possible consequences if the courts were to regard confidential information as property and the mere unauthorized possession of it as theft. Any ex-employee unable to erase corporate information from his memory (brain) could then theoretically be charged under the Criminal Code for each day that he is unable to forget it, said Justice Lamer.

However, a company is protected even without implementing a non-disclosure agreement which would prevent any employee from revealing corporate secrets. Sookman points out employees and company officers are obligated to operate in trust and confidence. Any breach of this is a civil offence.

According to Sookman, while confidential information isn't any less secure under the civil law following the decision in the Stewart case, the precedent set may well weaken the power of the courts to prosecute clear infringers in criminal cases.

by Anita Castaldi

```
   1 REM -Neil Grant contributes
this little reminder regarding
LEDs
  10 PLOT 123,40
  20 DRAW 54,0
  30 PLOT 125,40
  40 DRAW 0,40
  50 DRAW 50,0,-PI
  60 DRAW 0,-40
  70 PLOT 140,40
  80 DRAW 0,-20
  90 PLOT 160,40
 100 DRAW 0,-25
 110 PRINT AT 18,16;"-"
 120 PRINT AT 18,19;"+"
 130 FOR n=-(PI/2) TO PI/1.9 STEP PI/10
 140 PLOT 150+(SIN n)*40,80+(COS n)*40
 150 DRAW (SIN n)*40,(COS n)*40
 160 NEXT n
```

cont'd from pg 9

```
5155 INPUT a$(n,14 TO 18)
5160 PRINT TAB 5;"condition"
5165 PRINT ,"1. fair",,"2. cloudy",,"3. rain",,"4. snow",,"5. th undershowers"
5167 PRINT ,"6. snow flurries","7. heavy rain"
5170 INPUT a$(n,20)
5175 PRINT TAB 5;"rain"
5180 INPUT a$(n,22 TO 24)
5185 PRINT TAB 5;"winds"
5190 INPUT a$(n,30 TO 32)
5195 PRINT TAB 5;"snowfall"
6000 INPUT a$(n,26 TO 28)
6005 LET x=n
6007 CLS
6010 GO TO 300
9000 IF INKEY$<>"" THEN GO TO 9000
9005 CLS
9997 STOP
9998 PRINT #4: SAVE "wther.B1" LINE 60
9999 CLS : PRINT AT 8,0;"Bye..may all your days be sunny."
```

To enter the patch(es), LOAD Timachine from tape and wait until the "Backup?" prompt appears. Break into the BASIC program by deleting the left quote and pressing symbol-shift A (the STOP command). You can then list the program and edit it. When you've finished editing, make a new backup copy on a new tape by entering GOTO 8000.

The *C bug occurs when you compile a program that contains DATA statements and the system "crashes". Change line 106 to:

    106 DATA 33280,12

The *D and *E bugs occur when you compile large programs and have to use *D and *E to compile the code and data statements separatly. Add the following lines:

```
20 FOR i = 1 TO 4
21 READ address, n
22 FOR j = 0 TO n - 1
23 READ byte: POKE address + j, byte
24 NEXT j
25 NEXT i
```

SPECTRUM version

```
100 DATA 23952,4
101 DATA 205,240,133,0
102 DATA 29145,4
103 DATA 205,240,133,0
104 DATA 29906,4
105 DATA 205,247,92,0
106 DATA 34288,12
107 DATA 17,0,0,205,247,92,192,
        237,91,241,68,201
```

TS 2068 version

```
100 DATA 26843,4
101 DATA 205,0,130,0
102 DATA 32070,4
103 DATA 205,0,130,0
104 DATA 32858,4
105 DATA 205,71,104,0
106 DATA 33280,12
107 DATA 17,0,0,205,71,104,
        192,237,91,241,68,201
```

****

```
10 REM this program was sent
in by VSUG member Joe E. Jenkins
of Amarillo, Texas. Joe belongs
to many user groups and says
this program is from the Greater
Cleveland User Group library an
d was written by D.J. Currie.
11 REM
12 REM This program will slowl
y scroll a message across the sc
reen.
13 REM
15 CLEAR 59999
20 FOR f=0 TO 16: READ a: POKE
60000+f,a: NEXT f
25 DATA 33,255,87,14,192,6,32,
183,203,22,43,16,251,13,32,245,2
01
30 LET x=255: LET y=100
35 INPUT "Enter message: ";t$:
IF t$="" THEN GO TO 35
40 LET y$=t$
45 LET n=LEN y$
50 FOR q=1 TO n
55 GO SUB 70
60 NEXT q
65 GO TO 50
75 PRINT INK 5;AT 21,0;y$(q)
80 FOR a=7 TO 0 STEP -1
85 FOR b=0 TO 7
90 IF POINT (b,a)=0 THEN GO TO
120
95 FOR c=0 TO 1
100 FOR d=0 TO 1
105 PLOT x-16+2*b+c,y+2*a-d
110 NEXT d
115 NEXT c
120 NEXT b
125 NEXT a
130 FOR r=1 TO 16: RANDOMIZE US
R 60000: NEXT r
135 PRINT AT 21,0;" "
140 RETURN
```
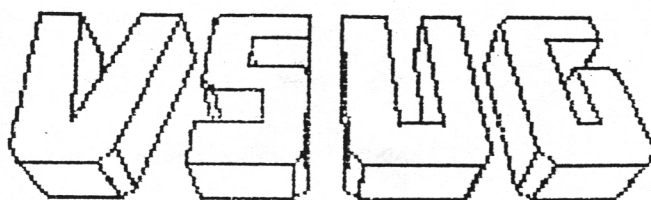
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